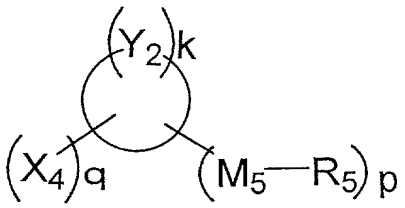
groups represented by -$(OR)_{n2}$- (wherein R is lower alkylene which can have hydroxyl and/or oxygen, and n2 is 0 or an integer of 1 to 5) or single bonds, X_3 is a substituent of the ring and is halogen, hydroxyl or lower alkyl, "l" is an X_3 number of 0 to 6, Y_1 is a ring member atom constituting the ring, all of the atoms $(Y_1)_m$ are carbon atoms, or a portion of them is carbon atom(s) and the rest atoms are heteroatoms, and "m" is a member number of the ring of 5 to 8,

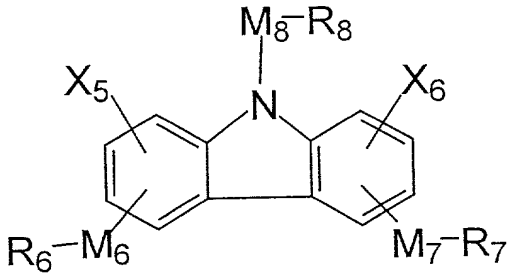
a halogenated cyclic compound represented by the general formula [III],



[III]

wherein X_4 is a substituent of the ring, at least one of plural $(X_4)_q$ is halogen and others are hydroxyl or lower alkyl, "q" is an integer of 2 to 6, R_5 is a monovalent organic group, at least one of plural $(R_5)_p$ has a radical polymerizable group at its terminal, M_5 is a divalent organic group represented by -$(OR)_{n3}$- (wherein R is lower alkylene which can have hydroxyl and/or oxygen, and n3 is 0 or an integer of 1 to 5) or a single bond, "p" is an integer of 1 to 4, Y_2 is a ring member atom constituting the ring, all of the atoms $(Y_2)_k$ are carbon atoms, or a portion of them is carbon atom(s) and the rest atoms are heteroatoms, and "k" is a member number of the ring of 5 to 8, and

a carbazole-based compound represented by the general formula [IV],



[IV]

wherein R_6, R_7 and R_8, being the same or different, are monovalent organic groups, at least one of which has a radical polymerizable group at its terminal, M_6, M_7 and M_8, being the same or different, are divalent organic groups represented by $-(OR)_{n4}-$ (wherein R is lower alkylene which can have hydroxyl and/or oxygen, and n4 is 0 or an integer of 1 to 5) or single bonds, and X_5 and X_6, being the same or different, are substituents of the ring and are halogen, hydroxyl or lower alkyl.

12. A hologram recording material composition as claimed in claim 11, wherein a weight ratio of at least one radical polymerizable compound (b1) selected from the group consisting of a fluorene-based compound [I], a sulfide-based cyclic compound [II], a halogenated cyclic compound [III] and a carbazole-based compound [IV] to at least one radical polymerizable compound (b2) selected from the group consisting of the other radical polymerizable compounds than the fluorene-based compound [I], the sulfide-based cyclic compound [II], the halogenated cyclic compound [III] and the carbazole-based compound [IV], (b1) : (b2) is 10 to 100 : 0 to 90 in said (meth)acrylate-based compound (B).

13. A hologram recording material composition as claimed in claim 2, wherein said solvent-soluble thermoplastic resin (D) has a

refractive index of 1.300 to 1.800.

14. A hologram recording material composition as claimed in claim 2, wherein said solvent-soluble thermoplastic resin (D) is one or a combination of two or more selected from the group consisting of a condensation polymerization product of a diphenol compound and a dicarboxylic acid compound, a resin having a carbonate group in a molecule thereof, a resin having an $-SO_2-$ group in a molecule thereof, polyvinylidene chloride, and a homopolymer or copolymer obtained by polymerizing at least one monomer having an ethylenic unsaturated double bond.

15. A hologram recording material composition as claimed in claim 11, wherein said viscosity reducing agent (E) is a compound (e1) which in nonreactive on said allyl-based prepolymer (A) and said (meth)acrylate-based compound (B) or a compound (e2) having allyl or methallyl in a molecule thereof.

16. A hologram recording medium comprising a substrate having formed thereon a recording layer comprising a hologram recording material composition claimed in claim 1.

17. A non-aqueous solvent-based hologram recording material composition comprising (A) an allyl-based prepolymer having at least one allyl group in a molecule thereof and a molecular weight of 10,000 to 100,000, (B) a (meth)acrylate-based compound having at least one polymerizable unsaturated group in a molecule thereof, (C) a photo-polymerization initiator, and a non-aqueous solvent, wherein a difference between a refractive index of said allyl-based prepolymer (A) and a refractive index of a polymer of said (meth)acrylate compound (B) is 0.005